



Update on EBM Initiative

Rikki Dunsmore, EBM Initiative Coordinator

February 16, 2012

Goal 1. Maintain/restore ecosystem health

Integrated Ecosystem Assessment

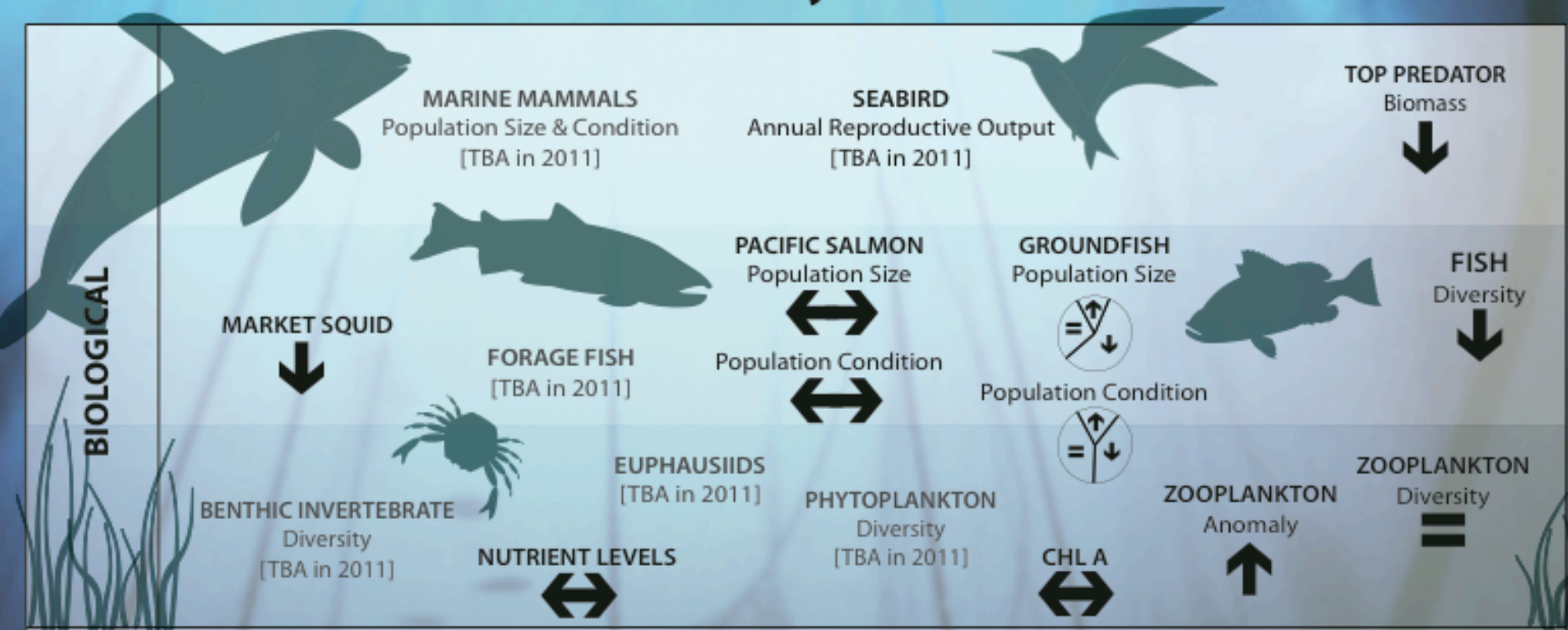
Integrated Ecosystem Assessment

The Science Needed for a Healthy California Current



<http://www.nwfsc.noaa.gov/publications/>

Status of the California Current Ecosystem at a Glance



PACIFIC DECADAL OSCILLATION (PDO)



Generally MORE
Productive and COLDER ocean conditions

Average condition

Generally LESS
Productive and WARMER ocean conditions

NORTHERN OSCILLATION INDEX (NOI)

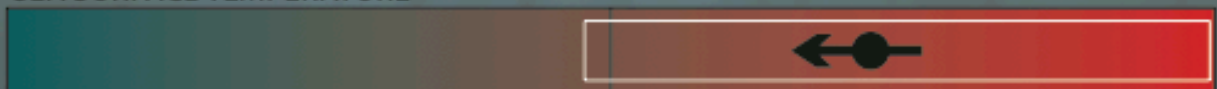


Generally MORE
Upwelling and Productive ocean conditions

Average condition

Generally LESS
Upwelling and Productive ocean conditions

SEA SURFACE TEMPERATURE



Generally COLDER
Ocean conditions

Average condition

Generally WARMER
Ocean conditions

KEY

↓ Downward Trend

↑ Upward Trend

= No Trend

↔ Variable Coastwide

● 2010 Value

← Trend

□ Range from Last 5 Yrs

PHYSICAL

IEA Communications

1. Website
2. Webinars
3. Videos
4. Brochure on-line



NOAA's Integrated Ecosystem Assessment Program



California Current

The California Current (CC) is known for strong seasonal upwelling that yields local areas of high productivity capable of supporting a wide variety of important commercially harvested shellfish and fish as well as sea birds and large marine mammals. Interannual variability in this system is influenced by two main climate drivers, the El Nino Southern Oscillation and the Pacific Decadal Oscillation. Health and productivity of this system is affected by commercial and recreational fishing, pollution, habitat degradation, shoreline alteration, logging, agriculture, urbanization, grazing, and energy production. The California Current Ecosystem (CCE) is the first in eight of the USA's Large Marine Ecosystems (LMEs) to implement NOAA's Integrated Ecosystem Assessment (IEA) program.

Source: www.lme.noaa.gov and Northwest Fisheries Science Center

IEA

**Your input is
requested**

- **IEA camera team in Monterey
March 8th**
- **Why is the MBNMS ecosystem
health important to you?**
- **Please talk to Rikki for more
information**

Protect Unique Rare Features

Report available
on EBM
Initiative
website

Unique and Rare Features in Monterey Bay National Marine Sanctuary: Summary of the 2011 Workshop to Inform the Ecosystem-based Management Initiative

convened
May 24th, 2011

at the
Southwest Fisheries Science Center, Santa Cruz, California



National Marine Sanctuaries
National Oceanic and Atmospheric Administration



NATIONAL MARINE
SANCTUARIES

MONTEREY BAY

<http://montereybay.noaa.gov>